

Claims

1. Cosmetic and dermatologic oxygen carrier system which comprises a liquid perfluorinated or partially fluorinated hydrocarbon or hydrocarbon mixture with a moiety of 0.1 - 10 % by weight, a liquid silicone polymer or silicone polymer mixture with a moiety of 10 - 85% by weight and an oil or water base with a moiety of 5 – 25% by weight, with all weight percentages being related to the total weight of the carrier system.
2. Oxygen carrier system according to Claim 1, wherein the carrier system is loaded with an initial oxygen content of 150 - 950 mbar O₂.
3. Oxygen carrier system according to Claim 1, wherein the carrier system is loaded four weeks after the loading with an oxygen content of 25 – 40% by volume of the initial oxygen content.
4. Oxygen carrier system according to Claim 1, wherein it contains tocopherol or a tocopherol derivative with a moiety of 0.01 - 1.5% by weight.
5. Oxygen carrier system according to Claim 1, wherein the moiety of the liquid silicone polymer ranges from 15 – 35% by weight.
6. Oxygen carrier system according to Claim 1, wherein the carrier system contains at least one gelling or thickening agent or mixture thereof.
7. Oxygen carrier system according to Claim 1, wherein the oil base of the carrier system is a vegetable oil, an ester or a mixture thereof.
8. Oxygen carrier system according to Claim 1, wherein in that the oxygen carrier is perfluorodecaline.
9. Oxygen carrier system according to Claim 1, wherein the moiety of the perfluorinated hydrocarbon or hydrocarbon mixture ranges from 1.5 – 6% by weight.

10. Oxygen carrier system according to Claim 1, wherein the carrier system is present in a cosmetic formulation with a moiety of 1 to 25% by weight, related to the overall weight of the formulation, preferably with a moiety of 6 to 10%.

11. Oxygen carrier system according to Claim 1, wherein the carrier system is present in a cosmetic formulation which comprises a silicone oil with a moiety of 3 to 70%, related to the overall weight of the formulation, preferably with a moiety of 6 to 35%.

12. Oxygen carrier system according to Claim 1, wherein the carrier system is present in a dermatologic formulation with a moiety of 3 to 40% by weight, preferably 6 to 35% by weight, related to the overall weight of the formulation.

13. Procedure for the preparation of a cosmetic oxygen carrier system according to claim 1 characterised in that at least one part of a liquid silicone polymer is incorporated while stirring at 20 to 100 r.p.m. into at least one part of the oil or water base at a temperature ranging from 18 to 26 °C, adding in addition while stirring at 10 to 80 r.p.m. a liquid perfluorinated or partially perfluorinated hydrocarbon or a hydrocarbon mixture and stirring it for 3 to 30 minutes, adding, optionally, further constituents for the carrier system or remaining moieties of the mentioned constituents while stirring at 40 to 150 r.p.m. and homogenising the mixture for 20 to 150 seconds at maximally 3,000 r.p.m. 10 to 40 minutes.

14. Procedure according to Claim 13 wherein the carrier system is treated with gaseous oxygen with a partial pressure of 180 to 600 mbar.

15. Use of a cosmetic oxygen carrier system comprising a liquid perfluorinated or partially perfluorinated hydrocarbon or hydrocarbon mixture with a moiety of 0.1 - 10 percent by weight, a liquid silicone polymer with a moiety of 35 – 85% by weight, an oil or water base with a moiety of 5 – 25% by weight, all weight percentages being related to the overall weight of the carrier system, in topical formulations, in particular in those with silicone oil contents of 5 – 25% by weight, related to the overall weight of the topical formulation.

16. Use according to Claim 15 wherein the topical formulation has the form of a cream, a lotion, a self-tanning agent, a sun protection formulation for use before, during and after the exposure to sun, of a mask, a gel, a spray.